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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Kenneth J. Hines

Group Art Unit: 2122

Application No. 09/885,448

Filed: June 19, 2001

For: **BEHAVIORAL ABSTRACTIONS FOR DEBUGGING
COORDINATION-CENTRIC SOFTWARE DESIGNS SOFTWARE
APPLICATIONS**

Date: October 8, 2001

INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

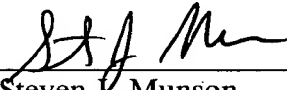
Pursuant to his duty of disclosure, applicant encloses a copy of the documents listed on the accompanying Form PTO-1449.

1. This information disclosure statement is being submitted:
 - a. ☒ Within three months of the filing date of the above-identified application or within three months of the date of entry of the national stage, or before the mailing date of the first Office action on the merits, whichever event occurs last. (No statement under 37 CFR 1.97(e) is required.)
 - b. ☐ After the period set forth in paragraph 1a, but before the mailing date of either a final action or a notice of allowance. (Check box i. or ii.)
 - i. ☐ A \$240.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed.
 - ii. ☐ A statement specified by 37 CFR 1.97(e) is set forth below.

- c. ☐ After the mailing date of a final action or notice of allowance and on or before payment of an issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. A petition requesting consideration of the information disclosure statement and the \$130.00 petition fee set forth in 37 CFR 1.17(i) are enclosed.
2. ☐ The attorney or agent signing below hereby states that:
- ☐ each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.
- ☐ no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.
3. ☐ Applicant(s) set forth below concise explanations of the relevance of each document not in the English language and/or selected document(s) in the English language.

Respectfully submitted,

Kenneth J. Hines

By 
Steven J. Munson
Registration No. 47,812

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Attorney Docket No. 10488/11:1 USA

Application No.: 09/885,448

Filed: June 19, 2001

Inventor: Kenneth J. Hines

Title: **BEHAVIORAL ABSTRACTIONS FOR DEBUGGING
COORDINATION-CENTRIC SOFTWARE DESIGNS**

Docket No.: 10488/11:1 USA



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CERTIFICATE OF MAILING

Date of Deposit: October 8, 2001

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
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Cathy Montee

Typed or printed name of person signing
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Attachments:

- ☒ Transmittal letter (in duplicate)
- ☒ Information Disclosure Statement
- ☒ Form PTO-1449, together with copies of cited references
- ☒ Return receipt postcard



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re application of

Group Art Unit: 2122

Kenneth J. Hines

Application No. 09/885,448

Filed: June 19, 2001

For: **BEHAVIORAL ABSTRACTIONS FOR DEBUGGING
COORDINATION-CENTRIC SOFTWARE DESIGNS**

Date: October 8, 2001

TRANSMITTAL LETTER

TO THE COMMISSIONER FOR PATENTS:


Enclosed for filing in the above-referenced application are the following:

- ☒ Information Disclosure Statement
- ☒ Form PTO-1449, together with copies of cited references
- ☒ Return receipt postcard

The Commissioner is hereby authorized to charge any additional fees which may be required in connection with filing of these papers, or credit overpayment, to Account No. 19-4455. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Kenneth J. Hines

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Attorney Docket No. 10488/11:1 USA

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
10488/11:1APPLICATION NO.
09/885,448INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)APPLICANT
Kenneth J. HinesFILING DATE
June 19, 2001GROUP
2122

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5	8	1	9	2	7	0	10/06/98	Malone et al.	707	7	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AB	[Baecker et al., 1997] Baecker, R., DiGiano, C., and Marcus, A. (1997). Software Visualization for Debugging. <i>CACM</i> , Vol. 40, No. 4, April 1997, pgs. 44-54.
AC	[Bates, 1986] Bates, P.C. (1986). <i>Debugging Programs in a Distributed System Environment</i> . Ph.D. thesis, University of Massachusetts, Amherst.
AD	[Bates and Wileden, 1983] Bates, P.C. and Wileden, J.C. (1983). High-level Debugging of Distributed Systems: The Behavioral Abstraction Approach. <i>The Journal of Systems and Software</i> , Vol. 3, No. 4, December 1983, pgs. 255-264.
AE	[Bruegge, 1991] Bruegge, B. (1991). A Portable Platform for Distributed Event Environments. In <i>ACM/ONR Workshop on Parallel & Distributed Debugging</i> , pgs. 184-193.
AF	[Fidge, 1991] Fidge, C.J. (1991). Logical Time in Distributed Computing Systems. <i>IEEE Computer</i> , 24(8):28-33.
AG	[Hines and Borriello, 1998] Hines, K. and Borriello, G. (1998). Debugging Distributed Implementations of Modal Process Systems. <i>Lecture Notes in Computer Science</i> . 1474:98-107.
AH	[Khouzam and Kunz, 1996] Khouzam, M. and Kunz, T. (1996). Single Stepping in Event-Visualization Tools. In <i>Proceedings of the 1996 CAS Conference</i> , pages 103-114.
AI	[Koehnemann and Lindquist, 1993] Koehnemann, H. and Lindquist, T. (1993). Towards Target-Level Testing and Debugging Tools for Embedded Software. In <i>Conference Proceedings on Tri-ADA '93</i> , pages 288-298.
AJ	[Kundu, 1996] Kundu, J. (1996). <i>Integrating Event- and State-Based Approaches to the Debugging of Parallel Programs</i> . Ph.D. thesis, University of Massachusetts, Amherst.
AK	[Kunz, 1994] Kunz, T. (1994). <i>Abstract Behavior of Distributed Executions with Applications to Visualization</i> . Ph.D. thesis, Technische Hochschule Darmstadt, Darmstadt, Germany.
AL	[Mattern, 1989] Mattern, F. (1989). On the Relativistic Structure of Logical Time in Distributed Systems. <i>Parallel and Distributed Algorithms</i> .

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
10488/11:1APPLICATION NO.
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(Use several sheets if necessary)APPLICANT
Kenneth J. HinesFILING DATE
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AM	[Netzer and Xu, 1993] Netzer, R. H. B. and Xu, J. (1993). Adaptive Message Logging for Incremental Program Replay, <i>IEEE Parallel and Distributed Technology</i> , pages 32-39.
AN	[Harter et al., 1985] Harter, Jr., P.K., Heimbigner, D.M., and King, R. (1985). IDD: An Interactive Distributed Debugger. In <i>Proc. of the 5th International Conference on Distributed Computing Systems</i> , pages 498-506. IEEE.
AO	[Russell, 1980] Russell, D. L. (1980). State Restoration in Systems of Communicating Processes. <i>IEEE Transactions of Software Engineering</i> , Vol. SE-6, No. 2, pgs. 183-194.
AP	[Shende et al., 1996] Shende, S., Cuny, J., Hansen, L., Kundu, J., McLaughry, S., and Wolf, O. (1996). Event and State-Based Debugging in TAU: A Prototype. In <i>Symposium on Parallel and Distributed Tools</i> , pages 21-30.
AQ	[Side and Shoja, 1994] Side, R. S. and Shoja, G. C. (1994). A Debugger for Distributed Programs. <i>Software - Practice and Experience</i> , Vol. 24(5), pgs. 507-525.
AR	[Taylor, 1992], Taylor, D.J. (1992). A Prototype Debugger for Hermes. In <i>Proceedings of the 1992 CAS Conference</i> , pgs. 313-326.
AS	[Taylor, 1995] Taylor, D. J. (1995). Event Displays for Debugging and Managing Distributed Systems. In <i>International Workshop on Network and Systems Management</i> .
AT	[Tsai et al., 1990] Tsai, J. J. P., Fang, K. Y., and Chen, H. Y. (1990). A Noninvasive Architecture to Monitor Real-Time Distributed Systems. <i>IEEE Computer</i> , 23:11-23.
AU	[Valot, 1993] Valot, C. (1993). Characterizing the Accuracy of Distributed Timestamps. In <i>ACM/ONR Workshop on Parallel & Distributed Debugging</i> , pgs. 43-52.
AV	[Zernik et al., 1992] Zernik, D., Snir, M., and Malki, D. (1992). Using Visualization Tools to Understand Concurrency. <i>IEEE Software</i> , 9(3):87-92.

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